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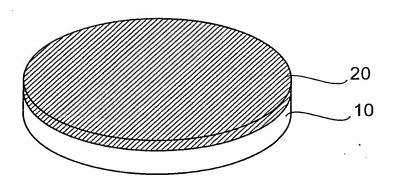
## Fig.1

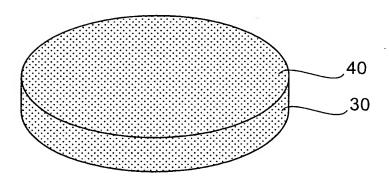
	HIGH-SPEED PARTICLE	REACTION	LIFETIME	THRESHOLD VALUE	NATURE VAIABILITY
1	PROTON p	<sup>11</sup> B(p,n) <sup>11</sup> C	20.4min	3.0MeV	80.1%
2	PROTON p	$^{16}O(p, \alpha)^{13}N$	9.96min	5.5MeV	99.8%
3	PROTON p	<sup>15</sup> N(p,n) <sup>15</sup> O	2.04min	3.7MeV	0.368%
4	PROTON p	<sup>18</sup> O(p,n) <sup>18</sup> F	109.7min	2.6MeV	0.205%
(5)	PROTON p	<sup>63</sup> Cu(p,n) <sup>63</sup> Zn	38.4min	4MeV	· 69.17%
6	DEUTERON d	<sup>12</sup> C(d,n) <sup>13</sup> N	9.96min	0.3MeV	98.93%
7	DEUTERON d	<sup>14</sup> N(d,n) <sup>15</sup> O	2.04min	0MeV	99.63%
8	DEUTERON d	$^{20}$ Ne(d, $\alpha$ ) $^{18}$ F	109.7min	0MeV	90.48%
9	DEUTERON d	<sup>10</sup> B(d,n) <sup>11</sup> C	20.4min	?	19.9%

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Fig.2





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Fig.4



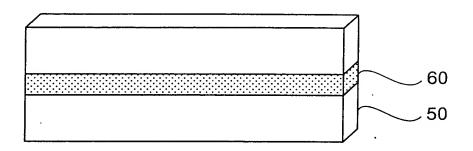
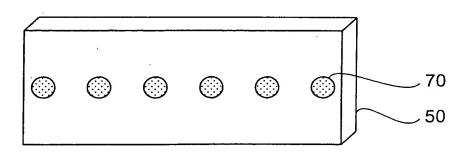
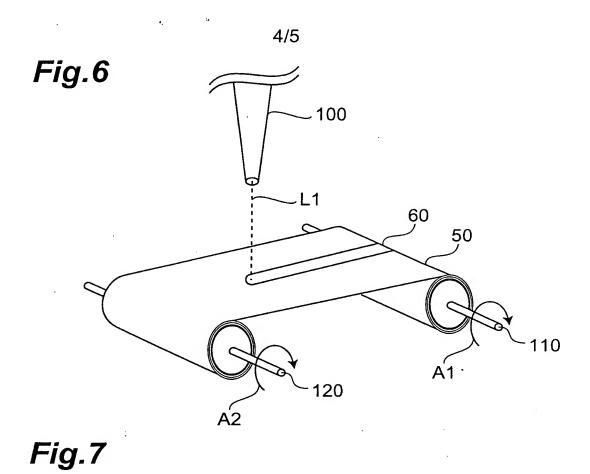


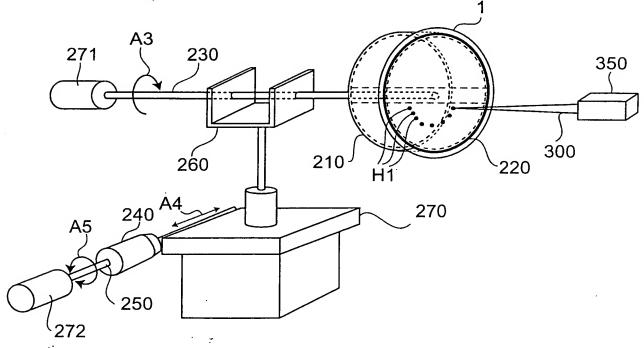
Fig.5







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Fig.8

